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(21) International Application Number: PCT/US99/16338 (22) International Filing Date: 19 July 1999 (19.07.99) (30) Priority Data: 60/093,546 21 July 1998 (21.07.98) US (71) Applicant (for all designated States except US): DUKE UNIVERSITY [US/US]; 230 North Building, Research Drive, P.O. Box 90083, Durham, NC 27708-0083 (US). (72) Inventor; and (75) Inventor/Applicant (for US only): VITEK, Michael, P. [US/US]; 205 Park Knoll Lane, Apex, NC 27502 (US). (74) Agents: SIBLEY, Kenneth, D. et al.; Myers, Bigel, Sibley, & Sajovec, P.A., P.O. Box 37428, Raleigh, NC 27627 (US).		(81) Designated States: AU, CA, JP, US, Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: TRANSGENIC MODEL OF HUMAN OXIDATIVE STRESS (57) Abstract A transgenic mouse whose germ cells and somatic cells contain: i) an inactive mouse inducible nitric oxide synthase gene; and ii) a transgene encoding the human inducible nitric oxide synthase gene, the transgene including all regulatory elements of the human nitric oxide synthase gene necessary for human patterns of expression of the transgene in the mouse, is described. The mice are useful as models of human inflammatory disease such as Alzheimer's disease, Multiple Sclerosis, Inflammatory Bowel Disease, and Rheumatoid Arthritis.		